

## SEQUENCE LISTING

<110> C. Frank Bennett  
Susan M. Freier

<120> ANTISENSE MODULATION OF SHIP-1 EXPRESSION

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&lt;221&gt; CDS

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Met Val Pro Cys Trp Asn His

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Gly Asn Ile Thr Arg Ser Lys Ala Glu Glu Leu Leu Ser Arg Thr Gly

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20

aag gac ggg agc ttc ctc gtg cgt gcc agc gag tcc atc tcc cgg gca 629

Lys Asp Gly Ser Phe Leu Val Arg Ala Ser Glu Ser Ile Ser Arg Ala

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tac gcg ctc tgc gtg ctg tat cgg aat tgc gtt tac act tac aga att 677

Tyr Ala Leu Cys Val Leu Tyr Arg Asn Cys Val Tyr Thr Tyr Arg Ile

40

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55

ctg ccc aat gaa gat gat aaa ttc act gtt cag gca tcc gaa ggc gtc 725

Leu Pro Asn Glu Asp Asp Lys Phe Thr Val Gln Ala Ser Glu Gly Val

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tcc atg agg ttc ttc acc aag ctg gac cag ctc atc gag ttt tac aag				773
Ser Met Arg Phe Phe Thr Lys Leu Asp Gln Leu Ile Glu Phe Tyr Lys				
	75	80	85	
aag gaa aac atg ggg ctg gtg acc cat ctg caa tac cct gtg ccg ctg				821
Lys Glu Asn Met Gly Leu Val Thr His Leu Gln Tyr Pro Val Pro Leu				
	90	95	100	
gag gaa gag gac aca ggc gac gac cct gag gag gac aca gaa agt gtc				869
Glu Glu Glu Asp Thr Gly Asp Asp Pro Glu Glu Asp Thr Glu Ser Val				
	105	110	115	
gtg tct cca ccc gag ctg ccc cca aga aac atc ccg ctg act gcc agc				917
Val Ser Pro Pro Glu Leu Pro Pro Arg Asn Ile Pro Leu Thr Ala Ser				
	120	125	130	135
tcc tgt gag gcc aag gag gtt cct ttt tca aac gag aat ccc cga gcg				965
Ser Cys Glu Ala Lys Glu Val Pro Phe Ser Asn Glu Asn Pro Arg Ala				
	140	145	150	
acc gag acc agc cgg ccg agc ctc tcc gag aca ttg ttc cag cga ctg				1013
Thr Glu Thr Ser Arg Pro Ser Leu Ser Glu Thr Leu Phe Gln Arg Leu				
	155	160	165	
caa agc atg gac acc agt ggg ctt cca gaa gag cat ctt aag gcc atc				1061
Gln Ser Met Asp Thr Ser Gly Leu Pro Glu Glu His Leu Lys Ala Ile				
	170	175	180	
caa gat tat tta agc act cag ctc gcc cag gac tct gaa ttt gtg aag				1109
Gln Asp Tyr Leu Ser Thr Gln Leu Ala Gln Asp Ser Glu Phe Val Lys				
	185	190	195	
aca ggg tcc agc agt ctt cct cac ctg aag aaa ctg acc aca ctg ctc				1157
Thr Gly Ser Ser Ser Leu Pro His Leu Lys Lys Leu Thr Thr Leu Leu				
	200	205	210	215
tgc aag gag ctc tat gga gaa gtc atc cgg acc ctc cca tcc ctg gag				1205
Cys Lys Glu Leu Tyr Gly Glu Val Ile Arg Thr Leu Pro Ser Leu Glu				
	220	225	230	
tct ctg cag agg tta ttt gac cag cag ctc tcc ccg ggc ctc cgt cca				1253
Ser Leu Gln Arg Leu Phe Asp Gln Gln Leu Ser Pro Gly Leu Arg Pro				

235	240	245	
cgt cct cag gtt cct ggt gag gcc aat ccc atc aac atg gtg tcc aag			1301
Arg Pro Gln Val Pro Gly Glu Ala Asn Pro Ile Asn Met Val Ser Lys			
250	255	260	
ctc agc caa ctg aca agc ctg ttg tca tcc att gaa gac aag gtc aag			1349
Leu Ser Gln Leu Thr Ser Leu Leu Ser Ser Ile Glu Asp Lys Val Lys			
265	270	275	
gcc ttg ctg cac gag ggt cct gag tct ccg cac cgg ccc tcc ctt atc			1397
Ala Leu Leu His Glu Gly Pro Glu Ser Pro His Arg Pro Ser Leu Ile			
280	285	290	295
cct cca gtc acc ttt gag gtg aag gca gag tct ctg ggg att cct cag			1445
Pro Pro Val Thr Phe Glu Val Lys Ala Glu Ser Leu Gly Ile Pro Gln			
300	305	310	
aaa atg cag ctc aaa gtc gac gtt gag tct ggg aaa ctg atc att aag			1493
Lys Met Gln Leu Lys Val Asp Val Glu Ser Gly Lys Leu Ile Ile Lys			
315	320	325	
aag tcc aag gat ggt tct gag gac aag ttc tac agc cac aag aaa atc			1541
Lys Ser Lys Asp Gly Ser Glu Asp Lys Phe Tyr Ser His Lys Lys Ile			
330	335	340	
ctg cag ctc att aag tca cag aaa ttt ctg aat aag ttg gtg atc ttg			1589
Leu Gln Leu Ile Lys Ser Gln Lys Phe Leu Asn Lys Leu Val Ile Leu			
345	350	355	
gtg gaa aca gag aag gag aag atc ctg cgg aag gaa tat gtt ttt gct			1637
Val Glu Thr Glu Lys Glu Lys Ile Leu Arg Lys Glu Tyr Val Phe Ala			
360	365	370	375
gac tcc aaa aag aga gaa ggc ttc tgc cag ctc ctg cag cag atg aag			1685
Asp Ser Lys Lys Arg Glu Gly Phe Cys Gln Leu Leu Gln Gln Met Lys			
380	385	390	
aac aag cac tca gag cag ccg gag ccc gac atg atc acc atc ttc atc			1733
Asn Lys His Ser Glu Gln Pro Glu Pro Asp Met Ile Thr Ile Phe Ile			
395	400	405	
ggc acc tgg aac atg ggt aac gcc ccc cct ccc aag aag atc acg tcc			1781
Gly Thr Trp Asn Met Gly Asn Ala Pro Pro Pro Lys Lys Ile Thr Ser			

410	415	420	
tgg ttt ctc tcc aag ggg cag gga aag acg cgg gac gac tct gcg gac			1829
Trp Phe Leu Ser Lys Gly Gln Gly Lys Thr Arg Asp Asp Ser Ala Asp			
425	430	435	
tac atc ccc cat gac att tac gtg atc ggc acc caa gag gac ccc ctg			1877
Tyr Ile Pro His Asp Ile Tyr Val Ile Gly Thr Gln Glu Asp Pro Leu			
440	445	450	455
agt gag aag gag tgg ctg gag atc ctc aaa cac tcc ctg caa gaa atc			1925
Ser Glu Lys Glu Trp Leu Glu Ile Leu Lys His Ser Leu Gln Glu Ile			
	460	465	470
acc agt gtg act ttt aaa aca gtc gcc atc cac acg ctc tgg aac atc			1973
Thr Ser Val Thr Phe Lys Thr Val Ala Ile His Thr Leu Trp Asn Ile			
	475	480	485
cgc atc gtg gtg ctg gcc aag cct gag cac gag aac cgg atc agc cac			2021
Arg Ile Val Val Leu Ala Lys Pro Glu His Glu Asn Arg Ile Ser His			
	490	495	500
atc tgt act gac aac gtg aag aca ggc att gca aac aca ctg ggg aac			2069
Ile Cys Thr Asp Asn Val Lys Thr Gly Ile Ala Asn Thr Leu Gly Asn			
	505	510	515
aag gga gcc gtg ggg gtg tcg ttc atg ttc aat gga acc tcc tta ggg			2117
Lys Gly Ala Val Gly Val Ser Phe Met Phe Asn Gly Thr Ser Leu Gly			
520	525	530	535
ttc gtc aac agc cac ttg act tca gga agt gaa aag aaa ctc agg cga			2165
Phe Val Asn Ser His Leu Thr Ser Gly Ser Glu Lys Lys Leu Arg Arg			
	540	545	550
aac caa aac tat atg aac att ctc cgg ttc ctg gcc ctg ggc gac aag			2213
Asn Gln Asn Tyr Met Asn Ile Leu Arg Phe Leu Ala Leu Gly Asp Lys			
	555	560	565
aag ctg agt ccc ttt aac atc act cac cgc ttc acg cac ctc ttc tgg			2261
Lys Leu Ser Pro Phe Asn Ile Thr His Arg Phe Thr His Leu Phe Trp			
	570	575	580
ttt ggg gat ctt aac tac cgt gtg gat ctg cct acc tgg gag gca gaa			2309
Phe Gly Asp Leu Asn Tyr Arg Val Asp Leu Pro Thr Trp Glu Ala Glu			

585	590	595	
acc atc atc caa aaa atc aag cag cag cag tac gca gac ctc ctg tcc			2357
Thr Ile Ile Gln Lys Ile Lys Gln Gln Gln Tyr Ala Asp Leu Leu Ser			
600	605	610	615
cac gac cag ctg ctc aca gag agg agg gag cag aag gtc ttc cta cac			2405
His Asp Gln Leu Leu Thr Glu Arg Arg Glu Gln Lys Val Phe Leu His			
	620	625	630
ttc gag gag gaa gaa atc acg ttt gcc cca acc tac cgt ttt gag aga			2453
Phe Glu Glu Glu Glu Ile Thr Phe Ala Pro Thr Tyr Arg Phe Glu Arg			
	635	640	645
ctg act cgg gac aaa tac gcc tac acc aag cag aaa gcg aca ggg atg			2501
Leu Thr Arg Asp Lys Tyr Ala Tyr Thr Lys Gln Lys Ala Thr Gly Met			
	650	655	660
aag tac aac ttg cct tcc tgg tgt gac cga gtc ctc tgg aag tct tat			2549
Lys Tyr Asn Leu Pro Ser Trp Cys Asp Arg Val Leu Trp Lys Ser Tyr			
	665	670	675
ccc ctg gtg cac gtg gtg tgt cag tct tat gcc agt acc agc gac atc			2597
Pro Leu Val His Val Val Cys Gln Ser Tyr Gly Ser Thr Ser Asp Ile			
680	685	690	695
atg acg agt gac cac agc cct gtc ttt gcc aca ttt gag gca gga gtc			2645
Met Thr Ser Asp His Ser Pro Val Phe Ala Thr Phe Glu Ala Gly Val			
	700	705	710
act tcc cag ttt gtc tcc aag aac ggt ccc ggg act gtt gac agc caa			2693
Thr Ser Gln Phe Val Ser Lys Asn Gly Pro Gly Thr Val Asp Ser Gln			
	715	720	725
gga cag att gag ttt ctc agg tgc tat gcc aca ttg aag acc aag tcc			2741
Gly Gln Ile Glu Phe Leu Arg Cys Tyr Ala Thr Leu Lys Thr Lys Ser			
	730	735	740
cag acc aaa ttc tac ctg gag ttc cac tcg agc tgc ttg gag agt ttt			2789
Gln Thr Lys Phe Tyr Leu Glu Phe His Ser Ser Cys Leu Glu Ser Phe			
	745	750	755
gtc aag agt cag gaa gga gaa aat gaa gaa gga agt gag ggg gag ctg			2837
Val Lys Ser Gln Glu Gly Glu Asn Glu Glu Gly Ser Glu Gly Glu Leu			

760	765	770	775	
gtg gtg aag ttt ggt gag act ctt cca aag ctg aag ccc att atc tct				2885
Val Val Lys Phe Gly Glu Thr Leu Pro Lys Leu Lys Pro Ile Ile Ser				
	780	785	790	
gac cct gag tac ctg cta gac cag cac atc ctc atc agc atc aag tcc				2933
Asp Pro Glu Tyr Leu Leu Asp Gln His Ile Leu Ile Ser Ile Lys Ser				
	795	800	805	
tct gac agc gac gaa tcc tat ggc gag ggc tgc att gcc ctt cgg tta				2981
Ser Asp Ser Asp Glu Ser Tyr Gly Glu Gly Cys Ile Ala Leu Arg Leu				
	810	815	820	
gag gcc aca gaa acg cag ctg ccc atc tac acg cct ctc acc cac cat				3029
Glu Ala Thr Glu Thr Gln Leu Pro Ile Tyr Thr Pro Leu Thr His His				
	825	830	835	
ggg gag ttg aca ggc cac ttc cag ggg gag atc aag ctg cag acc tct				3077
Gly Glu Leu Thr Gly His Phe Gln Gly Glu Ile Lys Leu Gln Thr Ser				
	840	845	850	855
cag ggc aag acg agg gag aag ctc tat gac ttt gtg aag acg gag cgt				3125
Gln Gly Lys Thr Arg Glu Lys Leu Tyr Asp Phe Val Lys Thr Glu Arg				
	860	865	870	
gat gaa tcc agt ggg cca aag acc ctg aag agc ctc acc agc cac gac				3173
Asp Glu Ser Ser Gly Pro Lys Thr Leu Lys Ser Leu Thr Ser His Asp				
	875	880	885	
ccc atg aag cag tgg gaa gtc act agc agg gcc cct ccg tgc agt ggc				3221
Pro Met Lys Gln Trp Glu Val Thr Ser Arg Ala Pro Pro Cys Ser Gly				
	890	895	900	
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Ser Ser Ile Thr Glu Ile Ile Asn Pro Asn Tyr Met Gly Val Gly Pro				
	905	910	915	
ttt ggg cca cca atg ccc ctg cac gtg aag cag acc ttg tcc cct gac				3317
Phe Gly Pro Pro Met Pro Leu His Val Lys Gln Thr Leu Ser Pro Asp				
	920	925	930	935
cag cag ccc aca gcc tgg agc tac gac cag ccg ccc aag gac tcc ccg				3365
Gln Gln Pro Thr Ala Trp Ser Tyr Asp Gln Pro Pro Lys Asp Ser Pro				

940	945	950	
ctg ggg ccc tgc agg gga gaa agt cct ccg aca cct ccc ggc cag ccg			3413
Leu Gly Pro Cys Arg Gly Glu Ser Pro Pro Thr Pro Pro Gly Gln Pro			
955	960	965	
ccc ata tca ccc aag aag ttt tta ccc tca aca gca aac cgg ggt ctc			3461
Pro Ile Ser Pro Lys Lys Phe Leu Pro Ser Thr Ala Asn Arg Gly Leu			
970	975	980	
cct ccc agg aca cag gag tca agg ccc agt gac ctg ggg aag aac gca			3509
Pro Pro Arg Thr Gln Glu Ser Arg Pro Ser Asp Leu Gly Lys Asn Ala			
985	990	995	
ggg gac acg ctg cct cag gag gac ctg ccg ctg acg aag ccc gag atg			3557
Gly Asp Thr Leu Pro Gln Glu Asp Leu Pro Leu Thr Lys Pro Glu Met			
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ttt gag aac ccc ctg tat ggg tcc ctg agt tcc ttc cct aag cct gct			3605
Phe Glu Asn Pro Leu Tyr Gly Ser Leu Ser Ser Phe Pro Lys Pro Ala			
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ccc agg aag gac cag gaa tcc ccc aaa atg ccg cgg aag gaa ccc ccg			3653
Pro Arg Lys Asp Gln Glu Ser Pro Lys Met Pro Arg Lys Glu Pro Pro			
1035	1040	1045	
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Pro Cys Pro Glu Pro Gly Ile Leu Ser Pro Ser Ile Val Leu Thr Lys			
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gcc cag gag gct gat cgc ggc gag ggg ccc ggc aag cag gtg ccc gcg			3749
Ala Gln Glu Ala Asp Arg Gly Glu Gly Pro Gly Lys Gln Val Pro Ala			
1065	1070	1075	
ccc cgg ctg cgc tcc ttc acg tgc tca tcc tct gcc gag ggc agg gcg			3797
Pro Arg Leu Arg Ser Phe Thr Cys Ser Ser Ser Ala Glu Gly Arg Ala			
1080	1085	1090	1095
gcc ggc ggg gac aag agc caa ggg aag ccc aag acc ccg gtc agc tcc			3845
Ala Gly Gly Asp Lys Ser Gln Gly Lys Pro Lys Thr Pro Val Ser Ser			
1100	1105	1110	
cag gcc ccg gtg ccg gcc aag agg ccc atc aag cct tcc aga tcg gaa			3893
Gln Ala Pro Val Pro Ala Lys Arg Pro Ile Lys Pro Ser Arg Ser Glu			



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atc aac cag cag acc ccg ccc acc ccg acg ccg cgg ccg ccg ctg cca			3941
Ile Asn Gln Gln Thr Pro Pro Thr Pro Thr Pro Arg Pro Pro Leu Pro			
1130	1135	1140	
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Val Lys Ser Pro Ala Val Leu His Leu Gln His Ser Lys Gly Arg Asp			
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Tyr Arg Asp Asn Thr Glu Leu Pro His His Gly Lys His Arg Pro Glu			
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Glu Gly Pro Pro Gly Pro Leu Gly Arg Thr Ala Met Gln			
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